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28. A data conversion apparatus for use in a data communication system which achieves
pseudo interactive communications by using one-way communications from the data
transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus
comprising:
document storing means storing a plurality of documents each of which includes one or
more character strings at least one of which contains a piece of link destination
information specifying another document as a link destination;
display image element generating means for reading the character strings one at a time
from the document storing means and converting each read character string into a
display image element being a bit-mapped graphic;
display image generating means for generating a display image which is composed of
generated display image elements and is to be displayed on the plurality of data
receiving apparatuses as one screen; and
display link destination information converting means for converting each piece of link
destination information into a piece of display link destination information which
specifies, as a link destination, another display image which is a display image of
the other document generated by the display image generating means.

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í	29.	A data conversion apparatus for use in a data communication system which achieves
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- pseudo interactive communications by using one-way communications from the data
- 3 transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus
- 4 comprising:
 - document storing means storing a plurality of documents each of which includes one or more character strings at least one of which contains a piece of link destination information specifying another document as a link destination;
 - display image element generating means for reading the character strings one at a time from the document storing means and converting each read character into a display image element being a bit-mapped graphic;
 - display image generating means for generating a display image which is composed of generated display image elements and is to be displayed on the plurality of data receiving apparatuses as one screen; and
 - identifier adding means for adding an identifier for cursor control to each generated display image element in the display image in accordance with display position of each display image element.
 - 30. The data conversion apparatus of Claim 29, wherein
- 2 the identifier is a number.

1	31. A data conversion apparatus for use in a data communication system which achieves
2	pseudo interactive communications by using one-way communications from the data
3	transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus
4	comprising:
5	document storing means storing a plurality of documents each of which includes one or
6	more character strings at least one of which contains a piece of link destination
7	information specifying another document as a link destination;
8	display image element generating means for reading the character strings one at a time
9	from the document storing means and converting each read character string into a
10	display image element being a bit-mapped graphic;
11	display image generating means for generating a display image which is composed of
12	display image elements of a same category and is to be displayed on the plurality o
13	data receiving apparatuses as one screen; and
14	display link destination information converting means for converting each piece of link
15	destination information into a piece of display link destination information which
16	specifies, as a link destination, another display image which is a display image of
17	the other document generated by the display image generating means.
1	32. The data conversion apparatus of Clarm 31, wherein
2	the document is written in HTML and
3	the display image generating means determines categories of the display image elements
4	from tags written in the document.

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The data conversion apparatus of Claim 32 further comprising:

supplementary design storing means storing supplementary designs with serial numbers; and

supplementary design adding means for reading the supplementary designs from the supplementary design storing means one by one in order, and adding each read supplementary design to each piece of link destination information specifying the other document as the link destination, on a one-to-one basis, wherein the display link destination information converting means converts each piece of link destination information into a piece of display link destination information corresponding to a serial number assigned to a supplementary design, the supplementary design storing means includes:

a maximum number storing unit for storing a maximum number of the supplementary designs in the display image, wherein

the display image generating means further includes:

a maximum number judging unit for judging whether the number of the supplementary designs to be arranged in the display image exceeds the maximum number; and a display image dividing unit for, when the maximum number judging unit judges that the number of the supplementary designs exceeds the maximum number, sending an instruction to the display image generating means to divide the display image into the plurality of display sub-images so that supplementary designs less than the maximum number are added to each of the plurality of display sub-images divided from the display image, wherein the display image generating unit generates the plurality of display sub-images according $t \delta$ the instruction.

	1	A data receiving apparatus for achieving a pseudo interactive communication by
	2	receiving one-way communications from a data transmitting apparatus, the data receiving
	3	apparatus comprising:
	4	display means for displaying a display image which is composed of one or more display
	5	image elements which are each a bit-mapped graphic generated from a character
	6	string which is included in a document and contains a piece of link destination
X	7	information specifying another document as a link destination;
	8	storage means for storing information showing positions of the one or more display
	9	image elements displayed by the display means;
ODY		focus means for focusing on one of the one or more display image elements displayed by
	11	the display means;
<u></u>	12	reception means for receiving an operation signal of a move button on a remote control;
<u> </u>	13	and
9	14	focus control means for controlling the focus and allowing another display image element
ا مريز 194] .15	to be focused on in accordance with the received operation signal by referring to
1.1 E]]6]	the position information stored in the storage means.
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